

1	PROCESSES OF DISPENSING	28	..With common operating means
590	.Molten metal	29	.Plural scale
2	CHECK CONTROL	30	.Recorder
3	GAS OR VAPOR DISPENSING	31	.With motion ratio adjusting means and/or relatively adjustable scale and pointer
4	.With nongaseous material dispensing	32	.With zero-setting mechanism
5	.With cutter or punch	33	..Operating cycle including reset to zero
6	.Parallel connected, serially used	34	..With means to prevent zero setting during discharge
591	MOLTEN METAL DISPENSING	35	..With means to prevent discharge prior to zero setting
592	.With heating or cooling	36	.Totalizer for successive dispenser cycles
593	..Heating	37	..Varying cycles or quantities per cycle
594	.Flow controllers or assists	38	..Reciprocating (including oscillating) dispenser part
595	..Fluid pressure assist	39	.Audible
596	..Piston displacement	40	.Flow and/or overflow type
597	..Closure	41	.Position or extent of motion indicator
598	...Movable about an axis	42	..Selection from plural outlets, valves or traps
599	....Perpendicular to flow	43	..Comprising an adjustable stop or stops
600	...Reciprocating transverse to flow	44	..Scale and pointer, with detents
601	...Stopper operator structure beneath receptacle	45	..Flexibly connected indicator and dispenser element
602	...Stopper operator structure above receptacle	46	..Common screw means for indicator element and dispenser part
603	.Gaseous fluid engages molten metal	47	..Indicating element rigidly carried by movable dispenser element
629	.Submersible dipper or trap chamber	48	...Pivoted or rotary dispensing part
604	.Tilting receptacle	49	...Slidable indicator element projecting from container
605	..Teakettle type	50	....Scale or container
606	.With subjacent flow guide	51	.Float-level indicators
607	..Unattached	52	AUTOMATIC CONTROL
14	CUTOFF OPERATED BY SELECTIVELY PRESET VOLUME OR RATE OF FLOW-RESPONSIVE MECHANISM	53	.Involving conveying conduit jacket and/or inert atmosphere (including vacuum) providing means
15	.With means to prevent change of setting during discharge	54	.Temperature responsive or soluble controller
16	.Operating cycle including reset to starting position	55	.Constant weight, volume or pressure control by output
17	.Moving cutoff operating element with variable initial position	56	.Delivery from source controlled by quantity in discharging receiver
18	..Having plural revolutions		
19	...Plural dials		
20	..Cutoff by valve closing		
21	.Cutoff by single trapped volume		
22	.Cutoff set after discharge begins		
23	WITH RECORDER, REGISTER, INDICATOR, SIGNAL OR EXHIBITOR		
24	.Register with shutter		
25	.Plural		
26	..Two or more volume devices		
27	..Register and signal		

57	.By weight, volume or pressure of a second dispensed material	78	SIMULATIONS
58	.By the weight of the material in the supply container	79	.Firearms
59	.Cutoff operated by rate of flow responsive mechanism	80	WITH CUTTER AND/OR PUNCH
60	..Single complete revolution of controller element	81	.To form dispensing opening in container
61	.Of dispensers with fluid pressure discharge assistance	82	..With discharge assistant
62	..Float-controlled pressure liquid	83	..Mounted for relative motion
63	.Motor control	83.5	...With sleeve or rest for container cut
64	.Material level control	85	..For cutting plural openings
65	..Full and/or empty interlock	86	...With sleeve or rest for container cut
66	..Empty container cutoff	87	..With container-destroying means
67	..Float-operated flow controllers	88	..With sleeve or rest for container cut
68	...Plural	89	..With nonfriction fit means to secure discharge guide to container
69	...For vent only	90	...Abutment for container interior
638	INCLUDING TIMER	91	...Screw
639	.For timing dispensing period	92	COLLAPSIBLE WALL-TYPE CONTAINER
640	..Of beverage or beverage component dispenser	93	.With additional article-holding means
641	...Including electrical timing circuit	94	.Plural container and/or compartment
642	..Of discharge assistant	95	.With wall-collapsing means
643	...Rotary	96	..With interconnected flow controller or closure operating means
644	..And means for timing the period between dispensing cycles	97	..Plural types
645	...Of aerosol dispenser	98	...Winding and roller types
646	....Including electrical timing circuit	99	..Winding type
647	.....And mechanical timing element	100	...With casing or support
648	.....And battery power supply	101	..Roller type
649	.For aerosol dispenser	102	...Plural roller
650	.For plant or animal feed dispenser	103	..Clamping type
651	.For wash cycle ingredient dispenser	104	..Twisting type
652	..Movably mounted ingredient container	105	.With casing or support
71	VOLUME OR RATE OF FLOW METERING	106	.Combined
72	.With meter bypass, gas separation, antisiphon priming	107	.Nonmetallic
73	.With hose pressure relief or maintenance	108	DRIP, LEAKAGE OR WASTE CATCHING OR DISPOSAL
74	HOSE OR OTHER MOVABLE DISCHARGE GUIDE INTERLOCKS AND INTERCONNECTIONS	109	.Return to main supply
75	.Switch or motor control and discharge controller actuator	110	..Valved
77	WEIGHING	111	..With enclosing cover
		113	WITH ILLUMINATOR OR BURNER
		576	INKWELL
		577	.With support (i.e., inkstand)
		578	.Including nongravity feed to dip well
		579	..Spillover type

580	..Including discharge assistant supporting and movable with dip well	142.4	..Selection as a result of container shape, configuration or arrangement
581	...Diaphragm-type discharge assistant	142.5	..Container within container concentrically arranged
582	...Biased for resetting	142.6	..With common selector
583	..Including dip well filled by immersion into supply	142.7	...Interconnected relatively movable closures
584	..Tilttable to fill dip well	142.8	...Bodily slidable closure
585	..Barometric	142.9	...Axially rotary closure for axial outlets
586	..Including base supporting removable inverted container	143	..Packing or stacking arrangements
587	...And valve or base-opened closure	144	..Rotatably mounted assembly
588	..Dip opening below peak level of supply	144.5	..With selecting means
589	...Including closure or valve for dip well outlet	145.1	..With common discharge
129	PLURAL SOURCES, COMPARTMENT, CONTAINERS AND/OR SPACED JACKET	145.2	..Including discharge path cleaning
129.1	..Cabinet-type dispenser for single mixed drinks	145.3	..Dispensed product retains identity of individual material (e.g., striped toothpaste)
129.2	..One ingredient operates dispensing means for another	145.4	..Movable material discharge guide
129.3	..With ingredient charge measuring	145.5	..Having mixing chamber
129.4	...Plural measured charges in single drink	145.6	...Including mixing means
130	..At least one nondispensing	145.7	..Having variable flow control
131	..Jacketed	145.8	...For common path
132	..Three or more diverse sources	146.1	WITH HEATING OR COOLING MEANS
133	..Measured discharge from one and indeterminate flow from another	146.2	..Heating only
134	..Interconnected discharge volume varying means	146.3	..Having an aerosol
135	..With discharge assistant for each source	146.4	..By steam
136	..Single, operable on material from all sources	146.5	..By electrical energy
137	..Unitary reciprocating	146.6	..Cooling only
138	..Two or more rotary or swinging	147	WITH REFILL PREVENTING MEANS
139	...Co-axial	148	WITH CLEANING MEANS
140	....Vertical axis	149	..Element extending through dispenser outlet
141	.....Single plane	150	..Operated by resilient container walls
142	...Parallel axes	151	..Extending inwardly through container outlet
142.1	..Hand manipulable shaker type	152	WITH CONVEYING CONDUIT JACKET AND/OR INERT ATMOSPHERE (INCLUDING VACUUM) PROVIDING MEANS
142.2	..Selection by relative movement between containers or containers and casing	153.01	WITH LOCK OR FASTENING SEAL
142.3	..Containers removable from base or casing	153.02	..Plural
		153.03	..Lock actuated by key or tool
		153.04	..Lock operation dependent upon dispenser position
		153.05	..Single-use fastening seal
		153.06	..Frangible
		153.07	...Pull tab
		153.08	..Cord
		153.09	..Inhibiting disassembly

153.1	..Overcap	615	...With variable transmission
153.11	.For a fluid pressure discharge assistant	616	...With clutch
153.12	..Maintain dispenser in open position	617	...Fluid flow discharge
153.13	.Inhibiting actuation of discharge assistant	618	...Plural ground wheel driven discharge assistants in series
153.14	.Inhibiting operation of flow controller or closure	619	...Ground wheel driven vibrator or jarring means
154	INSPECTION DEVICES	620	...Rotary motion of ground wheel to reciprocating, oscillating, or linear motion
155	.External gauge tubes	621	....Fluid pump
156	.Sight openings	622	...Endless conveyer
157	..Graduated for level determination	623	...Ground wheel driven rotary discharge assistant or rotary agitator
158	.Graduated transparent container or trap	624	....With adjustable discharge controller
159	.Transparent flow-line section	625	.....Sliding gate or shutter
160	MOVABLY MOUNTED SUPPLY CONTAINER	626	..Motor operated dispensing means
161	.Vibratory (i.e., for agitation of container contents)	627	...Power take off
162	..Moving relatively to trap, impeller or valve to cause discharge	628	..Manually actuated fluid pump
163	..Adjustable relatively to discharge assistant to vary the discharge volume	179	.With pedal-controlled discharge means
164	.Tiltable	179.5	.Removable for discharge
165	..For refilling or changing cartridges or containers	180	.Bracket or suspension supported
166	..For gravity discharge	181.1	..For bottom discharge
167	.Rotatable	181.2	...Suspension supported
168	..Vertical axis	181.3	...Supported on vertical wall by container integral with wall or by a plate support means
168.5	...Circumferentially arranged measuring or trap chambers	182	.Enclosing cover for actuating parts of discharging means
169	..Peripheral discharge	183	.Jacketed
170	...With trap chambers	184	.Extended sidewall base
171	...With sleeve-type discharge controller	185.1	.For bottom discharge dispenser supported on horizontal surface
172	...With annular outlet	186	.Foot piece or rest
173	WITH CASING OR SUPPORT	187	WITH WICK OR ABSORBENT MATERIAL FEED
174	.Pole or extension	188	WITH FLUID TRAP SEAL FOR INLETS OR OUTLETS (E.G., VENTS)
175	.Body carried and/or operated type	189.01	WITH FLAME ARRESTER
608	.Ambulant	189.02	WITH SIFTER
609	..With assembly or disassembly feature	189.03	.Integral with container
610	...Dispensing means detachably carried upon vehicle	189.04	.Plural
611.1	..With guide or guide line marker	189.05	.Including moving mechanism
611.2	...Mortar applying machine	189.06	WITH FILTER (E.G., STRAINER)
612	..With height adjustment	189.07	.Portable drainer
613	..Dispensing means driven or controlled by surface contact	189.08	.Plural
614	...Ground wheel operated discharge controller	189.09	.Associated with vent passage
		189.1	.Internally extended outlet pipe (e.g., diptube)
		189.11	.With discharge assistant

190	WITH MATERIAL TREATMENT OR CONDITIONING MEANS	216	AGITATOR AND/OR EJECTOR OPERATING ON MATERIAL IN EITHER (1)
191	WITH TOOL OR IMPLEMENT HANDLE		CONVEYER TYPE DISCHARGE
192	COMBINED		ASSISTANTS HAVING TRAP
630	FLUID FLOW DISCHARGE		CHAMBERS OR TRANSVERSE
631	.Fluid flow generated by manually actuated working member		GROOVES, OR (2) MOVABLE TRAP CHAMBERS
632	..Flexible working member	217	.Mounted on or in conveyer or movable trap chamber
633	...Bellows or bulb	218	..Radially movable ejector in rotary conveyer or trap chamber
634	..Telescoping supply container		...Double-ended ejector
635	.Pressurized aerosol container	219	.Meshing conveyer trap or groove and ejector rotor
636	.From movable trap chamber	220	.Cam-operated agitator or ejector
637	.Open blast	221	.Pivoted ejector
195	WITH GAS AGITATION	222	..With pivoted striker
196	JARRING AND/OR VIBRATING	223	.Ball or roller form agitator or ejector
196.1	.Hand manipulable shaker type	224	.Resilient ejector
196.2	..Movable outlet element	225	AGITATOR FOLLOWED BY DISCHARGE
196.3	...Pattern-type outlet with hole clearers	226	ASSISTANT AND/OR
196.4	...Caged outlet element		INTERCONNECTED DISCHARGE
196.5	..Guided or restrained internal element		CONTROLLER
197	.Movable or conveyer-type trap chamber	227	.Three or more in series
198	.Single outlet bounded by plural vibrating members	228	.Flexible or pivoted agitator carried by assistant or controller movable about an axis
199	.Bottom forming member reciprocable (including oscillatable)	229	.Axially aligned, with axially rotary and longitudinally movement
200	.Member reciprocable (including oscillatable) transversely of material flow	230	.Biasing means constitutes agitator
201	.Discharge rotor is actuator for vibratable wall	231	.Free engagement-type connection
202	.Supply container wall flexing	232	.Connection through eccentric carried by rotary assistant or controller
203	..Flexible wall	233	.One rotary and one reciprocating (including oscillating)
204	SIPHON COMBINED WITH DISCHARGE ASSISTANT	234	..Reciprocating, nonpivoted
205	NONGRAVITY FEED TO TRAP OF VACUUM, GRAVITY, OR MANUAL REMOVAL TYPE	235	...Rotary agitator
206	RESILIENT WALL	236	.All rotary
207	.Supply container delivering to receiving chamber	237	..Relatively rotatable rings and/ or plates
209	.Fluid pressure generating pump or pulsator and/or removable flexible wall closures	238	..Parallel axes
210	.With container handle or handgrip	239	..Coaxial
211	.Internally extending outlet pipe	240	...Helix or vane agitator and terminal element
212	.With flow controllers or closures	241	...Agitator and terminal screw, helix, or vane
213	..Resilient wall actuated	242	...Agitator rigidly mounted on succeeding device
214	.Wall deflecting means		
215	.Nonmetallic		

243	.All reciprocating (including oscillating)	276	....Unitary
244	..Relatively movable in parallel planes, nonpivoted	277	.....Pivoted
245	..Pivoted and nonpivoted reciprocating elements	278	..Alternatively usable
246	..Reciprocable axially of outlet	279	...Movable or removable baffles or covers for nonused assistant
247	..Pivoted only	280	..Single outlet formed by plural discharge assistants
248	...Unitary	281	...Parallel rolls
249	FLOATING PISTON WITH PLURAL OR ALTERNATE DISCHARGE	282	..With discharge volume varying means
250	..With discharge volume varying means	283	..Plural
251	WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP, CONVEYER, MOVABLE TRAP CHAMBER, ETC.)	284	..Trap chambers in series
252	..Plural	285	..Source and assistant relatively adjustable axially of source outlet
253	..With material-operated differential piston	286	...Sleeve-type discharge controller for outlet
254	..Three or more in series	287	..Adjustment in relatively movable actuator
255	..Pumps only	288	..Interchangeable, removable or selectively usable discharge assistant or element thereof
256	..Follower combined with casing enclosed impeller	289	...Reversible
257	...Interconnected with movable nozzle	290	..Adjustable deflector for conveyer-type discharge assistant
258	....Utilizing fluid pressure and/or motor	291	..Retractable projections
259	....Follower and impeller coaxial or parallel and interconnected	292	..Interconnected radially movable adjusting means for plural rotor projection or traps
260	...Follower and impeller coaxial or parallel and interconnected	293	..Rotor having plural adjustable parts of rotor form
261	....Utilizing fluid pressure and/or motor	294	...Substantially coextensive disks and/or rings, axially rotary adjustment
262	...Utilizing fluid pressure and/or motor	295	...Axially adjustable
263	..Utilizing fluid pressure and/or motor	296	....Disk with axially projecting pins
264	..Rotors with concentrically arranged sets of axial trap chambers	297	....Cup rotor with horizontal axis
265	..In sets	298	....Groove or trap rotor slidable through discharge channel
266	...With selecting means	299	.....With channel blocking means
267	...With common discharge volume varying means	300	.....With nonrotary sleeve
268	....Variable capacity rotors	301	.....Rose washer bearing
269	...Container wall sections carrying set units	302	....Material passage parallel to axis of rotation
270	...With interior material discharge guides between units	303	....Groove or trap blocking means
271	...Rotary	304	.....Axial pocket trap
272	....Oppositely directed	305	..Movable or conveyer-type trap chamber with capacity varying means
273	....Coaxial only	306	...Single inlet-outlet, adjustable bottom
274	.....Spaced units		
275	...Reciprocating (including oscillating)		

307	...Wall with straight line movements	332	.With vent passage for movable trap chamber
308	....Screw adjusting means	333	.Motor operated
309	..Adjustable stroke pump piston, pulsator or follower	334	..Fluid motor
310	..With discharge controller	335	.Actuated by pressure of or suction on material to be dispensed
311	...Rotor with discharge controller	336	.With biasing means for discharge assistant and/or its casing
312	....Discharge passage between drum-type rotor and controller	337	..Joint sealing bias only
313	.....Biased controller	338	...Movable encasing wall
314	.....Reciprocating nonpivoted controller	339	..For oscillating discharge assistant
315	....Cup rotor with horizontal axis	340	..For reciprocating piston on follower-type impeller
316	....Sectional discharge controller	341	...Biasing means within material chamber or passage
317	....On container side of rotor	342	.With scraper or wiper for or carried by discharge assistant
318	.With bypass or return to supply	343	.With retractable projections
319	.Displacement type	344	.Movable or conveyer-type trap chamber
320	.With movable nozzle interconnected therewith	345	..With striking or clearing means
321.1	..With material supply container and discharge assistant casing	346	...Not part of the supply container outlet
321.2	...With precompression	347	...Plural and/or interconnected with gate at point of trap reentry to supply
321.3	...With antileak or antisiphon means	348	...Sectional
321.4	...With plural-point inlet to casing	349	...Yielding
321.5	...Inlet trap (e.g., sump)	350	....Pivoted
321.6	...Aligned discharge assistant, actuator, container and nozzle	351	....Reciprocating
321.7	...Container-mounted pump	352	....Brush
321.8	....With relatively movable actuator	353	..Barometric or angle of repose
321.9	....Pump casing within supply container	354	..With relatively movable cutoff carried by trap chamber
322	.Movable element actuator projection through outlet	355	..With cutoff interconnected with trap chamber for operation
323	.With container handle or handgrip	356	..Dipping trap chamber, nonrotary, nonendless belt
324	..With material supply container and discharge assistant casing	357	...Compound movement
325	.Insertable cartridge or removable container	358	...Oscillating
326	..With follower	359	..With relatively movable actuator
327	...Part of cartridge or removable container	360	...Intermittent rotary
328	.With material discharge guide on container side of discharge assistant	361	..Reciprocating (including oscillating) conveyer-type trap chamber
329	.Removable or movable depending cups for rotors	362	...Oscillating
330	.With plural material outlets	363	....Single inlet-outlet
331	..Of different types	364	.....Pivot lying in chamber rim
		365	...Plural concentric enlargements on stem
		366	...Single inlet-outlet

367	..Rotary conveyer-type trap chamber	400.5	..Simultaneously operative material discharge valve and pump or pulsator operating member
368	...Single inlet-outlet		
369	....Scoop type		
370	...Axial inlet and outlet	400.7	..Unitary mounting for fluid pressure inlet and material outlet
371	..Endless belt carried		
372	..With material supply container and discharge assistant with casing (e.g., supply container and pump)	400.8	...With pump or pulsator
373	..Fluid pressure discharge	401	..Container-mounted fluid pressure generating pump or pulsator
375	..With antileak or antisiphon means or full-stroke mechanism	402	...With piston or pulsator holding means
376	..With plural-point inlet to casing	402.1	..Valve actuated by nozzle or through valve outlet
377	..Inlet trap (e.g., sump)	402.11	...With actuation disabling means
378	..Aligned discharge assistant, actuator, container and nozzle	402.12	...With discharge orifice contamination guard
379	..Telescopic outlet and/or discharge-assistant casing inlet	402.13	...With container end overcap having actuator
380	..Valve outlet	402.14	...With means to hold valve open
381	..Movable discharge assistant casing	402.15	...With container-carried actuating lever
382	..Internally extending outlet pipe	402.16	...With bypass for filling or charging
383.1	..Container-mounted pump	402.17	...With external selector of flowpath
383.2	...Rotary pump	402.18	...Separate inlets for gas and material in duct to valve
383.3	...Movable material discharge guide	402.19	...Alternative flowpath to valve when inverted
384	...With piston holding means	402.2	...Pressure lock trap chamber
385	...Pump or pulsator casing within supply container	402.21	...Tilting nozzle
386	..Container with follower	402.22	....Nozzle inner end valve headed
386.5	..Nonrigid follower	402.23	....Valve stem in nozzle
387	..Valved outlet, movable discharge guide and/or gas vent	402.24	...Nozzle sliding in or flexing seal ring
388	..With side wall filling opening	402.25	...Rod actuator pushed through valve outlet
389	..Fluid pressure actuated	403	..Film accumulating type
390	..Screw actuated	404	..Compound motions
391	..Intermittent grip-type actuator	405	..Discharge of material from top of supply
392	..Ribbon-type follower and/or stand actuator	406	..Deformable discharging elements
393	..Scoop type	407	..Biased
394	..Fluid pressure	408	..Conveyer type with deflector
395	..Liquid pressure	408.5	..Agitator rigidly mounted on movable closure
396	..With pressure limiting means		
397	..With pressure fluid relieving means	409	..Reciprocating (including oscillating)
398	..Telescopic container and/or outlet	410	..Rotary
399	..With gas pressure supplying reservoir	411	..Central discharge
		412	..Helically arranged projections (e.g., screws)

413	...Screw with terminal outlet only	451	...Rigidly interconnected or unitary cutoffs
414	..Peripheral surface material contact	452	....Rotary and/or pivoted only
415	..Endless belt	453	....Axially slidable only
416	SIPHON	454	..With tiltable container trap only
420	DROP FORMERS	455	..Supplementary trap
421	..Grooved closure and/or container neck or outlet	456	..Single discharge passage forming trap
422	..With valve	457	..Barometric or angle of repose trap chamber
423	WITH FILM ACCUMULATING MATERIAL REMOVERS	457.5	HAND MANIPULABLE SHAKER WITH REVERSE OUTLET PASSAGE
424	WITH MATERIAL RETURN TO SUPPLY	459	STATIONARY AGITATOR
424.5	SUPPLY CONTAINERS WITH TRAPS	460	FUNNEL-TYPE OUTLET
425	..With trap chamber cutoffs	461	..Movably interconnected
426	..Plural traps, nonserial	462	..Integral
427	...Single rotary cutoff member	463	ROCKABLE OR WEIGHTED
428	...Interconnected discharge controllers	464.1	INTERNALLY EXTENDING OUTLET PIPE
429	....For simultaneous discharge	464.2	..Porous or having plural apertures
430	....Of different capacities	464.3	..Movable
431	..With plural discharge	464.4	..Weighted
432	...Plural level discharge volume varying	464.5	..Telescopic
433	....Independent discharge controllers	464.6	..Float
434	..With discharge volume varying means	464.7	..Including sump
435	...With means to prevent adjustment during discharge	465.1	WITH CONTAINER HANDLE OR HANDGRIPS
436	...Trap chambers in series	466	..Plural handles
437	...Barometric or angle of repose	467	..Detachable
438	...With means to change trap chamber volume	468	..Vent in handle
439	....Movable cutoff of cutoff seat carrying elements	469	..Movable handle interconnected with flow controller or closure
440	....Having straight-line motion	470	..Handle and actuator for flow controller or closure juxtaposed for one handed manipulation
441	..With container handle or handgrip	471	..Nonpivoted actuator reciprocable lengthwise of handle
442	..With vent passage for trap	472	..Pivoted actuator
443	..With bypass or free-flow adjustment	473	...On handle
444	..Single inflow-outflow trap passage	474	...Generally lengthwise of handle
445	..Nonrigidly interconnected cutoffs	475	..Handle as spout, spout holder or guard
446	...Free engaging element carried by one cutoff	475.1	..Handle and spout for hot liquid decanters (e.g., coffee servers)
447	...Both reciprocating, nonpivoted	476	SPACED, ALTERNATELY SEATED FLOW CONTROLLERS OR CLOSURES FOR SINGLE OUTLET
448	..With relatively movable actuator	477	RETARDED OR DELAYED ACTION FLOW CONTROLLERS OR CLOSURES
449	..With biasing means		
450	..For both inlet and outlet		

478	WITH PLURAL OPENINGS OR DISCHARGE GUIDES	507	.Annular, outlet surrounding actuator
479	.Coterminous (barometric)	508	.For swingable elements in receptacle interior
480	.Hand-manipulable shaker, diverse-type openings (e.g., dredge top)	509	.For nonrotary outlet element reciprocable axially of discharge opening
481	.Having flow controllers or closures	510	OUTLET ELEMENT IN ONE WALL, ROD ACTUATOR THROUGH CONTAINER INTERIOR AND ANOTHER WALL
481.5	..With movable flexible or remotely connected vent pipes	511	WITH RESILIENT BIASING MEANS FOR OUTLET ELEMENT
482	..Plural and/or single for plural openings	512	.Joint sealing bias only
483	...Interlocked controllers and/or closures	513	.For movable tubes, sleeves, or apertured caps
484	...Interconnected for operation and/or integral	514	..Axially slidable only
485	....For plural dispensing outlets	515	.For elements having plural, diverse motions
486	....Variable number exposed and/or variably opened	516	.For rotary elements
487	....Nonrigidly interconnected	517	.For pivoted and swingable elements
488	..For single passage into which plural passages merge	518	.For elements reciprocable axially of discharge opening
489	...Screw-type flow controller or closure	519	AXIALLY ROTARY AND LONGITUDINALLY MOVABLE TUBES, SLEEVES, OR APERTURED CAPS
490	SLITTED RESILIENT DIAPHRAGM OR NIPPLE	520	.Axial discharge
491	OUTLET ELEMENT OPERATED BY PRESSURE OF CONTENTS	521	..Axial stationary closure plug
492	.Axially slidable tube, sleeve, or apertured cap	522	AXIALLY SLIDABLE TUBES, SLEEVES, OR APERTURED CAPS
493	..Axial discharge	523	.Sectional, telescoping
494	.Spring form, resilient or compressible flow controller or closure	524	.With telescopic guide pin
495	.Reciprocable, nonpivoted	525	.Axial discharge
496	..With biasing means	526	MOVABLE MATERIAL DISCHARGE GUIDE
497	...With additional means to hold against motion	527	.Foldable, bendable, collapsible or flexible
498	SNAP-ACTING OUTLET ELEMENT	528	..Closure type
499	.Axially movable tube, sleeve, or apertured cap	529	..With flow controller or closure
500	GRAVITY OR INERTIA OPERATED MOVABLE OUTLET ELEMENTS	530	..Nonuse securing means
501	MOVABLE OUTLET ELEMENT ACTUATOR PROJECTING THROUGH DISCHARGE GUIDE	531	.Closure type
502	SECTIONAL FLOW CONTROLLER OR CLOSURE	532	..With additional flow controller, closure or seal
503	.Interconnected for relative motion	533	.Swingable
504	MOTOR OPERATED OUTLET ELEMENT	534	..Into container recess
505	WITH RELATIVELY MOVABLE ACTUATOR FOR OUTLET ELEMENT	535	..From container interior
506	.Plural flow controllers or closures	536	..With flow controller or closure
		537	.With flow controller or closure
		538	NONUSE HOUSING OR SECURING MEANS FOR DISCHARGE GUIDES
		539	.Reversible to extend into or out of container
		540	OUTLET SEATED IN CONTAINER RECESS
		541.1	WITH FRANGIBLE CLOSURE FOR OUTLET

541.2 .With cutting or punching or with
cutter or puncher
accommodating means

541.3 .Closure or closure portion
broken by pressure of
container content

541.4 ..About line or point of weakness

541.5 .Having reusable closure

541.6 .About line or point of weakness

541.7 ..Adapted for engagement with
special tool (e.g., slotted
key)

541.8 ...Tool serves as closure

541.9 ..With integral gripping means
(e.g., pull tab)

542 **WITH PACKING-TYPE SEAL FOR OUTLET**

543 **WITH SINGLE STRAND, CORD OR WIRE
CONNECTOR FOR REMOVABLE OUTLET
ELEMENTS**

544 **WITH FLOW CONTROLLER OR CLOSURE**

545 .Plural and/or carried by
separably attached element

546 ..Cap carried axial plug

547 .With interior material guide or
restrictor

548 .Rotary, axially

549 ..With axial longitudinal motion

550 ...And additional pivotal motion

551 ...Nonapertured screw cap

552 ...Screw plug or disc

553 ..Apertured sleeve or cap,
nonaxial discharge

554 ..Plug

555 ..Between fixed plates or flanges

556 .Pivoted

557 ..Pivot axis parallel to axis of
outlet opening

558 ..Bail type

559 .Reciprocatory

560 ..Arcuate path

561 ..Between fixed plates or flanges

562 .Cap

563 .Plug

564 **WITH INTERIOR MATERIAL GUIDE OR
RESTRICTOR**

565 **SIFTER, SPRINKLER OR PLURAL
OPENING PATTERNS**

566 **NOZZLES, SPOUTS AND POURING
DEVICES**

567 .With separable attaching means

568 ..Screw

569 ..Abutment for container interior

570 ..Rim mounted, interengaging
groove and bead or flange

571 .Antidrip

572 .Integral with container walls

573 .Reinforced or with container-
connected brace

574 .With folded seam

575 **MISCELLANEOUS (E.G., OUTLET
SHAPES)**

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

DIG 1 XEROGRAPHY

